

### Abstract

The object of the present invention is to provide a linear device which is very thin, can be inserted into a desired region of a subject, and minimizes the damage to the subject.

5 The linear device is a linear member, which comprises a base layer extending in the axial directions of the linear member and a plurality of layers formed on the base layer and extending in the axial directions of the linear member. Two or more of said plurality of layers are conductive layers and two or more of said plurality of layers are insulating layers. Each insulating layer is disposed between the conductive layers. When the linear device is embedded in or its front end is inserted into a region of a subject, electric stimuli can be given to the region and the electric  
10 resistance of the region can be measured. Because the linear device is very thin, pain or uncomfortable feeling at the region is slight when it is inserted or embedded in a region of the human body or the like.